IN THE CLAIMS

1. [Cancelled] A wireless remote control, comprising:

a central processing unit

an infrared or radio frequency transmitter coupled to said central processing unit;

a keyboard or other input device such as a touchscreen, touchpad, mouse, joystick or other pointing device coupled to said central processing unit by which users may select commands and enter data; and

a memory coupled to said central processing unit and storing at least one computer program that controls said central processing unit to send remote control commands selected by a user via said keyboard or other input device using said transmitter.

2. [Cancelled] A wireless remote control, comprising:

a central processing unit;

a display coupled to said central processing unit;

an infrared or radio frequency transceiver coupled to said central processing unit;

a keyboard or other input device such as a touchscreen, touchpad, mouse, joystick or other pointing device coupled to said central processing unit by which users may select commands and enter data; and

a memory coupled to said central processing unit and storing at least one computer program that controls said central processing unit to send remote control commands selected by a user via said keyboard or other input device using said

transmitter, said at least one computer program also controlling said central processing unit to decompress any compressed video received by said transceiver and display images encoded in said decompressed data on said display, said memory also acting as a frame buffer for digital data to be displayed on said display.

3. [Currently amended] A wireless remote control comprising:

a personal digital assistant or other handheld device (both hereafter referred to as a personal digital assistant) having a host processor, a display capable of displaying video, a user input device for receiving commands and/or text input, and audio input/output circuitry~~, and with an expansion port or slot with an expansion bus therein~~, and memory;

a wireless transceiver coupled to said personal digital assistant host processor for ~~expansion card engaged with said expansion bus and mechanically supported by said expansion port or slot for~~ transmitting data to and receiving data from another wireless transceiver;

and wherein said memory stores an operating system and one or more programs to control said host processor to display digital video recording and playback menus on said display of said personal digital assistant and to monitor for input of digital video recording or playback commands entered via said user input device and for sending said commands to a digital video recording and playback enabled gateway or via said gateway and a hybrid fiber coaxial cable or DSL data path to a digital video recording and playback enabled headend to invoke the desired digital video recording or playback function such that said personal digital assistant can act as a remote control for said ~~a~~ digital video recording and playback enabled gateway or said digital video recording and playback enabled headend.

4. [Original] The apparatus of claim 3 wherein said memory includes an area reserved as a frame buffer and is further programmed with one or more programs that control said host processor to receive compressed video streams and decompress them to uncompressed video data and for converting said uncompressed video data to a format suitable for display on said display and storing said data in said frame buffer and displaying said data on said display.

5. [Currently amended] The apparatus of claim 3 wherein said memory is further programmed with one or more programs to control said host processor ~~computer~~ to act as a wireless web browser by receiving user commands issued by a user through said input device of said personal digital assistant and transmitted wirelessly to said gateway which causes said gateway to transmit commands via said hybrid fiber coaxial cable of DSL data path to said headend to cause said headend to control a server coupled to a wide area network to fetch data from one or more servers of said wide area network and transmit said fetched data back to said host processor of said personal digital assistant via said headend and said customer premises gateway for display on said display of said personal digital assistant.

6. [Currently amended] The apparatus of claim 3 wherein said memory is further programmed with one or more programs to control said host processor ~~computer~~ to enable said wireless remote control to control smart household appliances coupled to a local area network to which said remote control is coupled by virtue of wireless commands sent to said gateway, said gateway being coupled to said smart household appliances via said local area network. ~~said transceiver~~.

7. [Currently amended] The apparatus of claim 3 wherein said memory is further programmed with one or more programs to control said host processor of said personal digital assistant ~~computer~~ to enable said wireless remote control to control and invoke video playback or channel selection ~~TIVO~~ functions implemented by said ~~a~~ gateway in cooperation with a headend so as to cause scheduled broadcast video programs transmitted by said ~~and/or~~ headend to be selected by ~~wireless communication to~~ said ~~a~~ gateway or to cause user-selected video-on-demand programs to be transmitted by said headend to said gateway.

8. [Currently amended] The apparatus of claim 3 wherein said personal digital assistant further comprises audio input and output circuitry, and wherein said memory is further programmed with one or more programs to control said host processor ~~computer~~ to enable said wireless remote control to send wireless commands to retrieve MP3 files from an MP3 server in a gateway and to play said MP3 files.

9. [Currently amended] The apparatus of claim 3 wherein said personal digital assistant further comprises audio input and output circuitry, and wherein said memory is further programmed with one or more programs to control said host processor ~~computer~~ to enable said wireless remote control to act as a wireless telephone to carry out IP telephony.

10. [Currently amended] The apparatus of claim 3 wherein said personal digital assistant further comprises audio input and output circuitry, and wherein said memory is further programmed with one or more programs to control said host processor ~~computer~~ to enable said wireless remote control to act as a cellular telephone by transmitting data

packets to a gateway for routing to a cellular transceiver in radio contact with a cellular network.

11. [Currently amended] The apparatus of claim 3 wherein said memory is further programmed with one or more programs to control said host processor ~~computer~~ to enable said host processor ~~computer~~ to perform calendar and/or address book functions and to perform word processing and/or database functions.

12. [currently amended] The apparatus of claim 3 ~~33~~ wherein said memory is further programmed with one or more programs that control said host processor to carry out a wireless discovery process to determine what types of servers are in or coupled to a gateway or headend coupled to said gateway via said hybrid fiber coaxial cable or DSL data path ~~said remote control and~~ to discover the IP addresses of said servers.

13. [new] A wireless remote control comprising:

a host processor, a display capable of displaying video coupled to said host processor, a user input device for receiving commands and/or text input also coupled to said host processor, and a memory coupled to said host processor;

a wireless transceiver coupled to said host processor for transmitting data to and receiving data from another wireless transceiver;

and wherein said memory stores an operating system and one or more programs to control said host processor to display digital video recording and playback menus on said display and to monitor for input of digital video recording or playback commands entered via said user input device and for sending said commands to a digital video recording and playback enabled gateway or via said

gateway and a hybrid fiber coaxial cable or DSL data path to a digital video recording and playback enabled headend to invoke a desired digital video recording or playback function such that said remote control can wirelessly control said digital video recording and playback functions of said gateway and/or said digital video recording and playback enabled headend, and wherein wherein said memory is further programmed with one or more programs to control said host processor to act as a wireless web browser by receiving user commands issued by a user through said input device and transmitting said commands wirelessly to said gateway which causes said gateway to transmit commands via said hybrid fiber coaxial cable or DSL data path to said headend to cause said headend to control a server coupled to a wide area network to fetch data from one or more servers of said wide area network and transmit said fetched data back to said host processor of said personal digital assistant via said headend and said customer premises gateway for display on said display.